

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S1    | 16   | ((("4660052") or ("4997410") or ("5119108") or ("5450099") or ("5712890") or ("5852683") or ("6269177") or ("6459094") or ("20010014229")).PN.                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/03 10:38 |
| S2    | 18   | ((("4660052") or ("4997410") or ("5119108") or ("5450099") or ("5712890") or ("5852683") or ("6269177") or ("6459094") or ("20010014229") or ("4524368")).PN. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/11 08:55 |
| S3    | 2    | ("4524368").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/03 10:30 |
| S4    | 2    | ("20050212839").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/03 10:49 |
| S5    | 2    | ("20030090686").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2006/05/03 12:11 |
| S6    | 63   | "347"/\$.ccls. and (staggered stagger overlap) with ((print\$3 record\$3) adj head) same reference  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/03 14:30 |
| S7    | 7    | "347"/\$.ccls. and (staggered stagger overlap) near ((print\$3 record\$3) adj head) same reference  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/03 14:31 |
| S8    | 89   | "347"/\$.ccls. and (staggered stagger overlap) near ((print\$3 record\$3) adj head)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/05/11 09:35 |

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|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S9  | 59  | "347"/\$.ccls. and (staggered stagger overlap) near ((print\$3 record\$3) adj head) and reference same ((print\$3 record\$3) adj head) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/03 14:54 |
| S10 | 31  | "347"/\$.ccls. and (Palmer.IN.)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/03 14:55 |
| S11 | 3   | "347"/\$.ccls. and (mathew near richard near palmer)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/03 14:56 |
| S12 | 2   | ("4660052").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/04 09:55 |
| S13 | 856 | 347/9.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/04 09:56 |
| S14 | 9   | "347"/\$.ccls. and (print adj head) with null near data  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/04 10:16 |
| S15 | 12  | "347"/\$.ccls. and (print adj head) same null near data  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/04 10:17 |
| S16 | 7   | "347"/\$.ccls. and (print adj head) with (blank zero) near data  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/04 11:31 |

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|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S17 | 9   | "347"/\$.ccls. and (print adj head) with (heat) near data   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 11:31 |
| S18 | 3   | "347"/\$.ccls. and (print adj head) with (preheat) near data  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 11:32 |
| S19 | 1   | "347"/\$.ccls. and (print adj head) with (pre adj heat) near data   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 11:32 |
| S20 | 556 | "347"/\$.ccls. and ((subset line) near5 data with ((print\$3 adj head) (record\$3 adj head)) with print\$3)       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 11:54 |
| S21 | 10  | "347"/\$.ccls. and ((subset) near5 data with ((print\$3 adj head) (record\$3 adj head)) with print\$3)            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 11:55 |
| S22 | 19  | "347"/\$.ccls. and ((swath) near5 data with ((print\$3 adj head) (record\$3 adj head)) with print\$3)             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 11:59 |
| S23 | 2   | "347"/\$.ccls. and ((swath) near5 data with ((print\$3 adj head) (record\$3 adj head)) with print\$3) same time   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 12:00 |
| S24 | 3   | "347"/\$.ccls. and ((swath) near5 data with ((print\$3 adj head) (record\$3 adj head)) with print\$3) same tim\$3 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 12:01 |

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|     |     |  |   |    |    |                  |
|-----|-----|--|---|----|----|------------------|
| S25 | 0   | "347"/\$.ccls. and ((swath) near5 data with ((print\$3 adj head) (record\$3 adj head)) with print\$3) same offset  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 12:01 |
| S26 | 33  | "347"/\$.ccls. and ((swath) with ((print\$3 adj head) (record\$3 adj head)) with print\$3) same offset   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 13:41 |
| S27 | 145 | "347"/\$.ccls. and ((multiple plurality two) near ((print adj head) (record\$3 head))) and (null blank zero) near (data (print adj data) image)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 13:44 |
| S28 | 68  | "347"/\$.ccls. and ((multiple plurality two) near ((print adj head) (record\$3 head))) and ((null blank zero) near (data (print adj data) image) with ((print adj head) (record\$3 head)))     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 13:48 |
| S29 | 39  | "347"/\$.ccls. and ((multiple plurality two) near ((print adj head) (record\$3 adj head))) and ((null blank zero) near (data (print adj data) image) with ((print adj head) (record\$3 head))) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 14:29 |
| S30 | 34  | "347"/\$.ccls. and ((stagger\$3 near (print adj head)))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 14:31 |
| S31 | 26  | "347"/\$.ccls. and ((stagger\$3 near (print adj head))) and data   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 14:50 |
| S32 | 510 | "347"/42.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 14:50 |

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|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S33 | 515  | "347"/41.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 15:13 |
| S34 | 102  | "347"/41.ccls. and (null blank no<br>none zero) near5 data   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 15:29 |
| S35 | 241  | "347"/13.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 15:33 |
| S36 | 4850 | "358"/1.2,1.9.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 15:30 |
| S37 | 20   | "358"/1.2,1.9.ccls. and ((print\$3<br>record\$3) adj head) with (null blank<br>zero no) near5 data | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 15:31 |
| S38 | 20   | "347"/13,41,42.ccls. and 358/1.2,1.<br>9.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 15:34 |
| S39 | 1174 | "347"/13,41,42.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 15:34 |
| S40 | 4850 | 358/1.2,1.9.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 16:29 |

## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S41 | 4850 | S40 and S40  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 15:34 |
| S42 | 20   | S40 and S39  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 15:34 |
| S43 | 6004 | S40 or S39   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 15:34 |
| S44 | 52   | S43 and (stagger\$3 multiple plurality) with ((print\$3 record\$3) near head) and (null blank zero no) near data               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 16:06 |
| S45 | 1125 | 347/15.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 16:20 |
| S46 | 37   | 347/15.ccls. and (stagger\$3 multiple plurality) with ((print\$3 record\$3) near head) and (null blank zero no) near data      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/08 11:59 |
| S47 | 12   | 347/15.ccls. and ((print\$3 record\$3) near head) same (null blank zero no) near data  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/04 16:22 |
| S48 | 29   | 358/1.2,1.9.ccls. and (stagger\$3 multiple plurality) with ((print\$3 record\$3) near head) and (null blank zero no) near data | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/08 12:08 |

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|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S49 | 0    | 347/41,42,13,15.ccls. and ((time with offset) same (print adj head) same data same (subset line)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/08 12:00 |
| S50 | 4    | 347/41,42,13,15.ccls. and ((time with offset) same (print adj head) same data)                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/08 12:02 |
| S51 | 27   | "347"/\$.ccls. and ((time with offset) same (print adj head) same data)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/08 12:04 |
| S52 | 4    | "347"/\$.ccls. and ((time with offset) same (print adj head) same data) same (subset line)        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/08 12:03 |
| S53 | 4850 | 358/1.2,1.9.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/08 12:09 |
| S54 | 204  | 358/1.2,1.9.ccls. and (stagger\$3 multiple plurality) with ((print\$3 record\$3) near head)       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/08 12:09 |
| S55 | 2    | ("20050212839").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/10 15:10 |
| S56 | 2    | ("6997698").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/11 09:19 |

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|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S57 | 200  | ("6435117" "6848846" "5801739"<br>"4467366" "4780006" "4827279"<br>"5605407" "5778347" "5825394"<br>"6040670" "6050674" "6069710"<br>"6095637" "6108017" "6406120"<br>"4033807" "4259676" "4284001"<br>"4304496" "4305082" "4350092"<br>"4353298" "4403874" "4449033"<br>"4496962" "4504160" "4509421"<br>"4515487" "4554637" "4563691"<br>"4605323" RE32897 "4819556"<br>"4827281" "4827286" "4864216"<br>"4906316" "4906910" "4915525"<br>"4916561" "4941001" "5200763"<br>"5241523" "5262804" "5269120"<br>"5299872" "5349450" "5400059"<br>"5439302" "5450099").pn.<br>("5454651" "5455611" "5485178"<br>"5559547" "5568269" "5651620"<br>"5670995" "5719680" "5757393"<br>"5774163" "5796418" "5808631"<br>"5812156" "5815179" "5838339"<br>"5859652" "5865544" "5880448"<br>"5896160" "5909227" "5911527"<br>"5927871" "6000867" "6002844"<br>"6019526" "6019449" "6056455"<br>"6074052" "6079813" "6086272"<br>"6086185" "6109722" "6128098"<br>"6134020" "6134136" "6151041"<br>"6166828" "6172688" "6172701"<br>"6174042" "6176569" "6186615"<br>"6195109" "6198496" "6198897"<br>"6203133" "6215557" "6215557"<br>"6231149" "6273548").pn. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/11 09:20 |
| S58 | 83   | "347"/\$.ccls. and (staggered<br>stagger overlap) near ((print\$3<br>record\$3) adj head) and (count\$3<br>tim\$3 iterat\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/11 09:38 |
| S59 | 58   | "347"/\$.ccls. and (staggered<br>stagger overlap) near ((print\$3<br>record\$3) adj head) and (count\$3<br>tim\$3 iterat\$3) with (data pixel line)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/11 09:50 |
| S60 | 1671 | 358/1.16.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2006/05/11 10:03 |



## EAST Search History

|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S61 | 89 | 358/1.16.ccls. and (multiple stagger\$3 overlap\$3 plurality many) with ((print\$3 record\$3) near head)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/11 10:05 |
| S62 | 78 | 358/1.16.ccls. and (multiple stagger\$3 overlap\$3 plurality many) with ((print\$3 record\$3) near head) and (provid\$3 transfer\$3 mov\$3) with (data line pixel image) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/05/11 10:06 |